CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022 11.11.2021

Aggregate Impact Value

Client	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	**Sri. Panduranga,** Contractor, Bangalore.
Name of the Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	11.11.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	305	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	20.78	21.19	**20.98**

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

Note:

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⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022

11.11.2021

Aggregate Impact Value

Client	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	**Sri. Panduranga,** Contractor, Bangalore.
Name of the Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	11.11.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.34	22.74	22.54

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022

11.11.2021

Aggregate Impact Value

Client	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	**Sri. Panduranga,** Contractor, Bangalore.
Name of the Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	11.11.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	294	294	
4	Aggregate Impact value = percent fines			
	100* (W_2/W_1) percent	22.63	23.04	22.83

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022 Date: 11.11.2021

TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	:	**Sri. Panduranga,** Contractor, Bangalore.
Name of the work	:	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code	:	IS 15462:2004 , IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, CRMB-55
Date of testing	:	11.11.2021

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:15462:2004
1	Penetration at 25 ^{0}C, 1/10 mm	50	<60
2	Softening point, ^{0}C	56	Min. 55
3	Flash Point, ^{0}C	244	Min. 220

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Projec
Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/PR/14/2021-2022 11.11.2021

Aggregate Impact Value

Client	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	**Sri. Panduranga,** Contractor, Bangalore.
Name of the Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS Code	:IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	11.11.2021

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.25	22.66	22.45

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table o.500.16)

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Projec
Management Consultants, Third Party Quality Assurance, DPR

Job No.: CQCE/BBMP/PR/14/2021-2022

Date 04.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: IS 2720(Part 5):1985
Date of Testing 02.11.2021 to 04.11.2021
Material Type : Wet Mix Macadam

DE-14

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	24.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022 Date : 02.11.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer, K R Puram** Division, Bangalore.
Agency	: **Sri. Panduranga,** Contractor, Bangalore.
Name of Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	02.11.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	14.2	10.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	9.5	12.3	
	Combined Flakiness & Elongation index	23.70	22.9	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022 Date 04.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: IS 2720(Part 5):1985
Date of Testing 02.11.2021 to 04.11.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022

Date 04.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: IS 2720(Part 5):1985
Date of Testing 02.11.2021 to 04.11.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Testing of Construction Material - Mechanical, So
Bitumen, Non Destructive Testing Services, Proje
Management Consultants, Third Party Quality Assurance, DP

Job No.: CQCE/BBMP/PR/14/2021-2022 Date 04.11.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: IS 2720(Part 5):1985
Date of Testing 02.11.2021 to 04.11.2021
Material Type : Wet Mix Macadam

DE 14

SL No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Date : 02.11.2021

Job No.: CQCE/BBMP/PR/14/2021-2022

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 02.11.2021
Material Type : Wet Mix Macadam
Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	241	241	2.4	97.6	95-100
22.4	2635	2876	28.8	71.2	60-80
11.2	2215	5091	50.9	49.1	40-60
4.75	1789	6880	68.8	31.2	25-40
2.36	1223	8103	81.0	19.0	15-30
0.600	654	8757	87.6	12.4	8-22
0.075	958	9715	97.2	2.8	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022

Date: 02.11.2021

Aggregate Impact Value

Client	**Executive Engineer,** Dasarahalli Division, Bangalore.
Agency	**Sri. Panduranga,** Contractor, Bangalore.
Name of the Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	02.11.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	387	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	302	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.96	22.37	22.16

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022 Date : 02.11.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer, K R Puram** Division, Bangalore.
Agency	: **Sri. Panduranga,** Contractor, Bangalore.
Name of Work	Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	02.11.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.5	11.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.3	14.1	
	Combined Flakiness & Elongation index	22.80	25.7	

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Job No.: CQCE/BBMP/PR/14/2021-2022 Date : 02.11.2021

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 02.11.2021
Material Type : Wet Mix Macadam

BE-14

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	234	234	2.3	97.7	95-100
22.4	2518	2752	27.5	72.5	60-80
11.2	2369	5121	51.2	48.8	40-60
4.75	1652	6773	67.7	32.3	25-40
2.36	1124	7897	79.0	21.0	15-30
0.600	742	8639	86.4	13.6	8-22
0.075	996	9635	96.4	3.6	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PR/14/2021-2022

Date : 02.11.2021

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.

Agency : **Sri. Panduranga,** Contractor, Bangalore.

Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing 02.11.2021

Material Type : Wet Mix Macadam

DE-14
9

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	232	232	2.3	97.7	95-100
22.4	2658	2890	28.9	71.1	60-80
11.2	2234	5124	51.2	48.8	40-60
4.75	1748	6872	68.7	31.3	25-40
2.36	1239	8111	81.1	18.9	15-30
0.600	560	8671	86.7	13.3	8-22
0.075	985	9656	96.6	3.4	0-5

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Testing of Construction Material - Mechanical, S
Bitumen, Non Destructive Testing Services, Proj
Management Consultants, Third Party Quality Assurance, DF

Job No.: CQCE/BBMP/PR/14/2021-2022 Date : 02.11.2021

GRADATION FOR WMM

Client : **Executive Engineer,** Dasarahalli Division, Bangalore.
Agency : **Sri. Panduranga,** Contractor, Bangalore.
Name of Work Filling of Potholes in Bagalagunte in Ward No.14, BBMP, Bangalore.
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing 02.11.2021
Material Type : Wet Mix Macadam

AE-14

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	230	230	2.3	97.7	95-100
22.4	2458	2688	26.9	73.1	60-80
11.2	2236	4924	49.2	50.8	40-60
4.75	1521	6445	64.5	35.6	25-40
2.36	1123	7568	75.7	24.3	15-30
0.600	602	8170	81.7	18.3	8-22
0.075	1569	9739	97.4	2.6	0-5

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